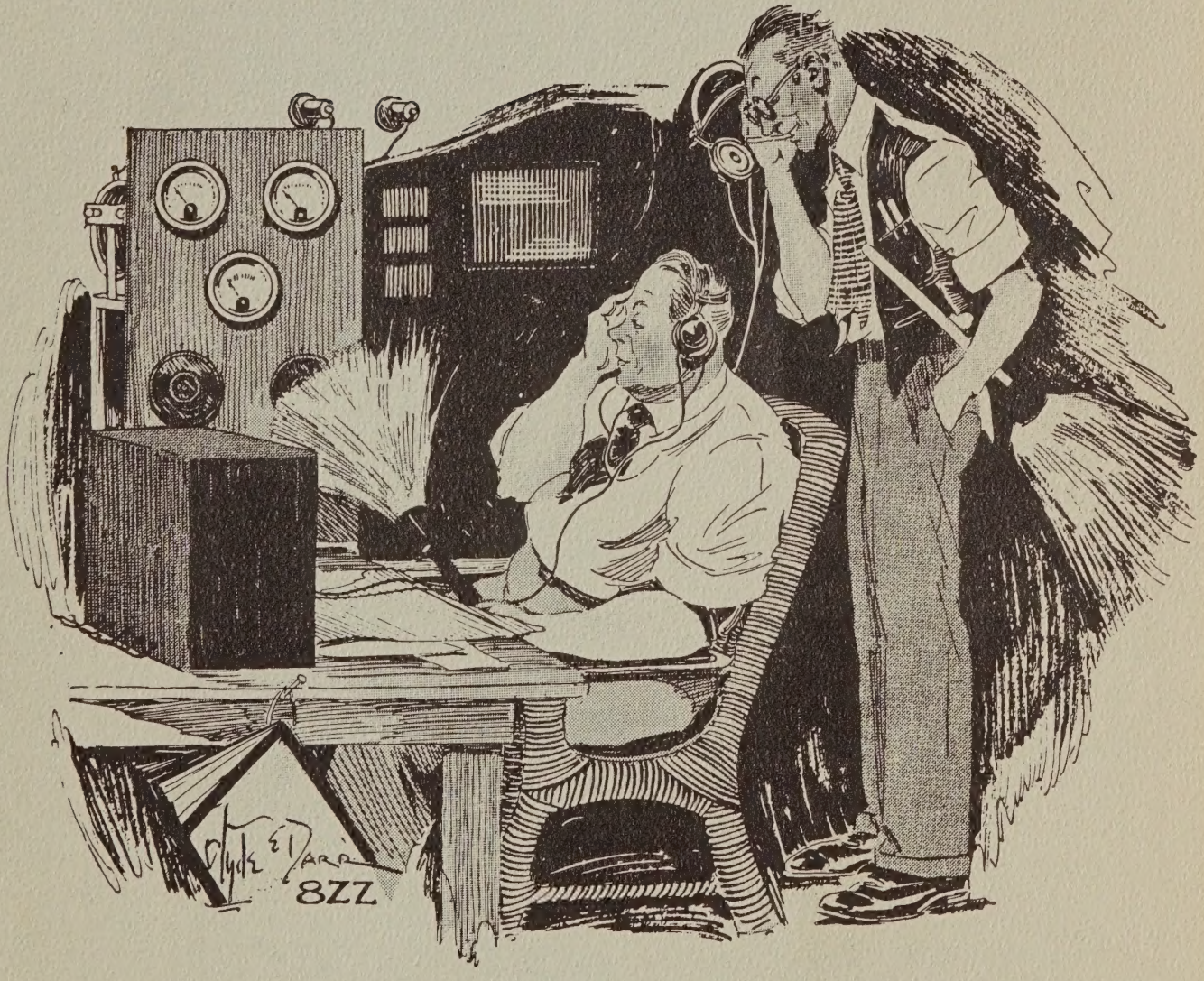
THE OLD TIMER'S BULLETIN

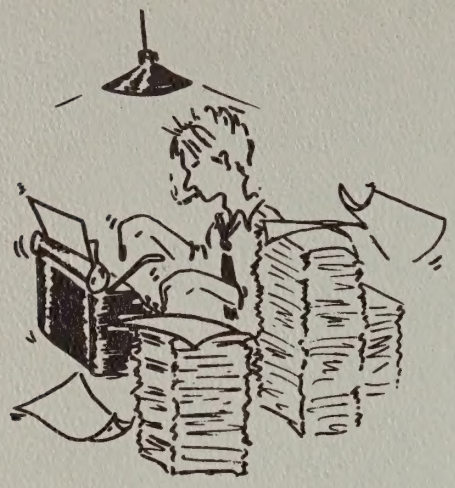
OFFICIAL JOURNAL, ANTIQUE WIRELESS ASSOCIATION, INC.
Published for the Old Time Wireless Operator, Historian and Collector

Vol. 15 | DECEMBER 1974 | No. 3



"Time Out for DX"

FROM HEADQUARTERS



Editorial

Address? _____

We're always suspicious of an address given only as "Box No. ---" in a large city. If the individual is legitimate, how come he doesn't use his street address ?

A Box No. is commonplace in a small town post office without delivery but one has to have a darn good reason to use one in a large metropolitan area with mail service.

Such is the case of a questionable "Box No." address currently being used in the New York City metro area. Watch. out collectors because you will never catch up with the fellow ?

News Journal

OLD TIMERS BULLETIN

EDITOR: Bruce Kelley

MAKE-UP EDITOR: Larry Triggs

CONTRIBUTING EDITORS: Jerry Tyne, Lauren Peckham, Ken Gardner

PRINTER: Don Ray

The BULLETIN is published quarterly and mailed in March. June, September and December. Send all news items to Secretary: MAIN STREET
HOLCOMB, NEW YORK 14469

DUES and ADDRESS CHANGES:
Lincoln Cundall
69 Boulevard Parkway
Rochester, N.Y. 14612

CALENDAR OF EVENTS

The following 1975 dates are to be confirmed. Exact times will be published in the March issue.

Late April
S.W.P./A.W.A., San Mateo, Calif.
A.W.A., Foothill College
Los Altos, Calif.

May 17
A.W.A. Meet, Peckham Museum
Breesport, N.Y.

May 31
A.W.A./R.A.R.A. W.N.Y. Hamfest
Rochester, N.Y.

June 22
I.H.R.S./A.W.A., Purdue University
West Lafayette, Indiana

Oct. 4
A.W.A. National Conference
(Location to be determined)

Oct. 18
A.W.A./New England Wireless Museum
East Greenwich, Rhode Island

Nov. 9
A.W.A. Annual Business Meeting
East Bloomfield, New York

FALL MEET AND DINNER

Members attending the Fall Meet at East Greenwich, R.I. ran into the same miserable weather as the Indiana group at Purdue -- RAIN ! -- a steady downpour until noon.

Fortunately, it didn't mar activities other than cutting some deep ruts in Bob's lawn. The day started with a brisk auction with Larry Whitlock squeezing every nickel out of the audience -- all for a good cause, however -- the Museum's Library Fund.

The Museum provided the historian-collector an opportunity to see some real choice equipment and across the way visitors were exposed to a marvelous display of steam engines including several in operation.

One of the firemen (yes, you have to shovel coal into a boiler) was young Paul Merriam who belted up a generator to a large Corliss engine to demonstrate making electricity the "old way".

Evening banquet and program was an unqualified success with accent on Maj. Armstrong's work with an informal talk by the great inventor's attorney, Dana Raymond. A BIG thanks to the Merriam family.....

THE MUSEUM

ACADEMY MUSEUM East Bloomfield, N.Y.

Work activity at the new museum came to an end as cold weather moved in. Members not familiar with upstate New York may be interested to know what it is like in the winter.

It is not uncommon at times to have two or three feet of snow on the ground with temperatures below zero -- this is not conducive to travel. Result: the museum is closed and local members hibernate to their warm basement workshops where they leisurely work on any number of projects such as restoring old broadcast receivers, photographing their latest "find", binding magazines and books or maybe work on an early transmitter.

April lst will find the work crew back to the building where they will finish the amateur radio station area and small library. For the time being, it has been decided to leave operating equipment (W2AN) as well as the vast tube collection at the old location.

Starting May lst, the new museum will be open to the public Sunday afternoons and Wednesday evenings.

EDWIN HOWARD ARMSTRONG

Dr. Leonard Wade is offering A.W.A. a large oil painting of Maj. Armstrong which will be hung in a prominent place in the Museum's Armstrong Room.. Leonard is an amateur painter and an Armstrong admirer.

It will be a welcomed gift since the large room is devoid of Armstrong artifacts other than one piece of equipment.

A.W.A. HISTORICAL MUSEUM FUND

Returns are still coming in from members interesting in supporting the Fund Drive. Officers find it difficult to express their feelings over the generous response. Instead of $1 and $2, most donations are $5 and greater with many in three figures !

Each donation is accurately accounted for and President Brelsford is endeavoring to thank each contributor with a personal letter. Assisting Treasurer Cundall in the operation is Dex Deeley, former Air Force Internal Auditor and now Staff Accountant with Eastman Kodak Company. They will release a full report at the Annual Business Meeting and in a future OTB. Some consideration has been given to engraving the names of all donors on a plaque which would be permanently mounted in the new museum.

"THE most famous radio tube in the world" was the caption for the Fleming valve photo in the Museum Fund brochure. The omission of one word by the printer raised some eyebrows by a few tube collectors -- and for good reason.

The caption should have read "ONE of the most famous, etc." The tube that is pictured is rare but most certainly not THE rarest....

NAVAL RESEARCH LABORATORY

A.W.A. was the recent recipient of over 3000 pounds of old equipment and written material from N.R.L. George Batterson trucked the load from Washington to Holcomb where it was placed in storage on the third floor of the new Museum. A complete inventory will be made when current work is completed on the building.

A cursory examination found equipment dating from the early 20's through WWII. Many of the items were found to have great historical significance. This was verified by L. Gebhard of the Lab. A detail report will be given at a later date.

SPECIAL REPORT:

NATIONAL HISTORICAL RADIO CONFERENCE

SMASHING SUCCESS!

Hardly a member returned home from the recent Conference without having a great time. Programming was best yet, the meals weren't bad for mass serving and the weather turned from snow to several real beautiful autumn days... (yes, there was 8" of snow the day before the Conference -- a freak winter storm...)

Great teamwork by all participants kept activities on schedule and provided one of the best historical programs ever presented at a radio conference. One major improvement will be necessary at next year's "meet" -- more display area for the Collector's Equipment Contest plus a longer viewing period.

An earlier comment by Mel Comer stating: "the Contest provides an instant Museum" was an understatement. The room was packed with some of the nicest pieces of radio gear ever placed on display !

Contest results and photos of the Contest will be printed in the next Bulletin.

meeting of the minds

LOCATION:

"I don't like the Canandaigua location. Its way out in the boondocks away from everything, no airport, etc."

"I like the Canandaigua location. I want to get away from the big city traffic, crime, high prices such as $15 for banquet ticket, etc."

"I like the Sheraton Inn. All the action is there and the location is ideal."

"I don't like the Sheraton. The rates are too high and there is too much confusion. I always stay at a cheaper place down the road."

BANQUET:

"I attend the banquet for a good time and to be with my friends. I don't expect a gormet meal."

"I can go outside almost anywhere and get a better meal for the same money."

PROGRAM:

"The fellow gave a good talk. He explained everything and seemed to know what he was talking about."

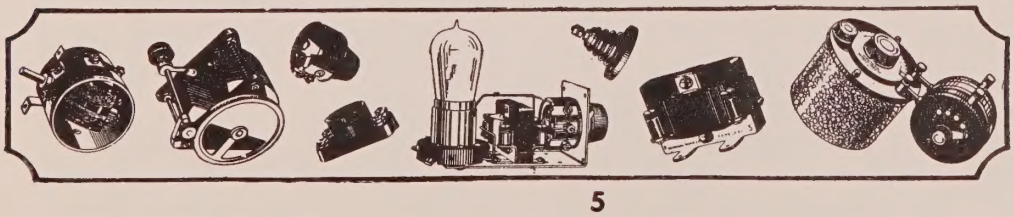
"He knew his subject but was long winded. I wish he had hit the high-points and left out the little details. Quality -- not quantity..."

HOUCK AWARD

Right: Bill Grenfell (W4GF) presents Lou Moreau (W3WRE) the Houck Plaque attended by Awards Chairman Bob Morris (W2LV). Lou is the first women to receive the coveted award which is based on her outstanding DOCUMENTATION of telegraph and key history over a period of 25 years. At left is Warren Green (W7JY) acknowledging acceptance of the Houck Award for historical PRESERVATION. Warren has been instrumental in locating, restoring and setting up numerous historical displays of early radio equipment with the most recent being in the Seattle Science Museum (see page 22, June '74 OTB).

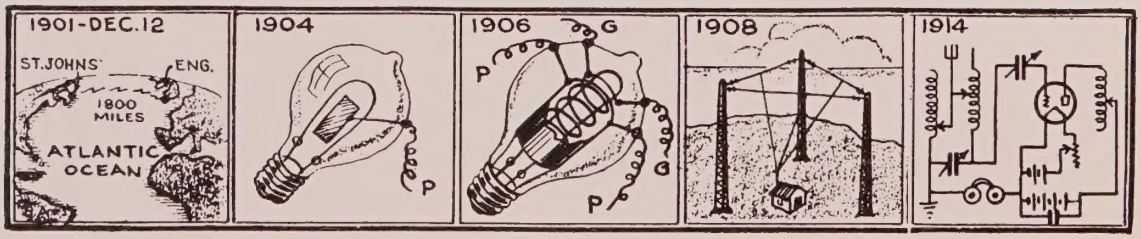
Collectors Quiz Panel adroitly handled by Ross Smith of the Indiana Historical Radio Society provided instructive entertainment. Participants (winners and losers) were given prizes (books) provided by Morgan McMahon.

Canadian EAST meets Canadian WEST as Aaron Solomon, VE1OC (Nova Scotia) exchanges notes with Jack Rhodes, VE7XJ (British Columbia). Canadian members were well represented with some traveling great distances such as Jack and VE4ZX from Winnipeg. The Canadians also shared in programming with Fred Hammond (VE3HC) showing breath-taking views of new CN Tower.



Members at one of the several technical sessions. Total attendance during the two day period exceeded 300. Letters indicate programming was the best ever presented at a historical radio conference.

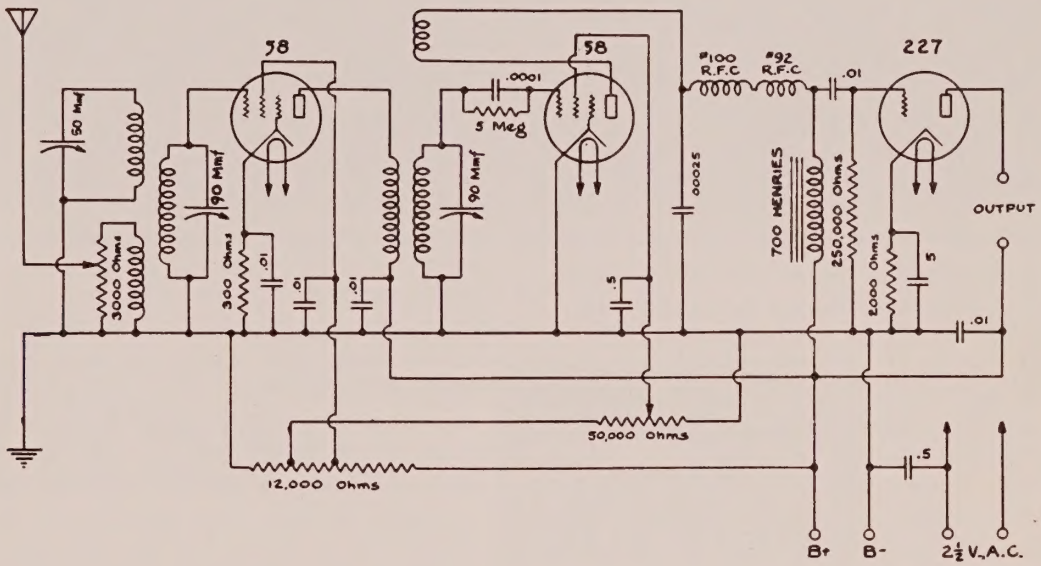
Ken Gardner (W2BGN) and Lou Moreau (W3WRE) were among the Thursday night visitors at the partially completed museum. Seen is a section of one of the several early commercial wireless installations.



SW-3

Having seen a brief description and circuit of the National SW-5 in a recent OTB, members have asked for similar information on the more popular SW-3. We reproduce below a special notice released by National telling of the improved SW-3 design with the "newer" type tubes. The basic circuit is used in all models with slight modifications.

Since the NATIONAL SW-3 was originally designed, the new type 58 short wave R.F. amplifier tubes have been placed on the market



IN order to take full advantage of the improved amplification at the higher frequencies, possible in connection with these new tubes, the SW-3 has just been re-designed so as to now use two of the 58 tubes: — one as the R.F. amplifier and one as the detector. At the same time, the new NATIONAL Isolantite coil and R.F. tube sockets, isolated rotor two-gang Straight Frequency Line condenser, short wave R.F. choke, and other such new and improved type of parts have been incorporated.

The use of the new tubes requires the use of coils — (both regular and band spreading) — with different impedance primaries and ticklers than with the type 35 tubes. Consequently, in ordering any additional coils for the improved ACSW-3 at any time, refer to the following list rather than to that contained in the enclosed booklet.

No. 60 — 8½ to 14 meters
No. 61 — 13½ to 25 meters
No. 62 — 23 to 41 meters
No. 63 — 40 to 70 meters
No. 64 — 65 to 115 meters
No. 65 — 115 to 200 meters

AMATEUR BAND SPREAD COILS

No. 61A — 20 meter band
No. 63A — 40 meter band
No. 64A — 80 meter band
No. 65A — 160 meter band

The general operating instructions as given in the standard SW-3 booklet, remain unchanged for the new receiver.

The combination model has been thoroughly re-designed to incorporate all the circuit improvements of the A.C. model, which results in greatly improved operating characteristics.

The tubes employed are the same as formerly; viz., 236s in R.F. and detector and 237 audio for battery operation, or 235s for R.F. and detector with 227 audio for full A.C. operation and A.C. heater operation with B battery plate supply.

The coils to be used in this model are numbered from 10 to 21 inclusive.

The circuit diagram is essentially the same as that of the older model.

THE RADIO RECEPTOR STORY

The March OTB (14-4-6) Tells of AWA receiving for display an early RADIO RECEPTOR super-het. The announcement brought several letters including one from Bob Hertzberg who knew the founder 50 years ago.

A brief history of this pioneer firm will be of interest to members ince it was one of the first to manufacture Armstrong's super-heterodyne in kit form.

The company was founded in 1912 by Hugo Cohn and Lt. Victor Greiff as a small electrical firm. The two were willing and able to tackle anything in the electrical field. In addition to some electric wiring, they built dental x-ray equipment using 10 and 12 inch spark coils with a Wehnelt interrupter and other dental electrical items such as ionization units.

This partnership ended abruptly when Greiff entered the Navy, but Cohn carried on the business during WWI, switching from dental products to build-engine driven arc welding generators. These were mostly installed on barges in New York Harbor and were used to expedite shipboiler repairs during and after the war.

Q S T

May, 1924

Greiff. after leaving the Navy, was for a short time associated with Joseph Freed, manufacturing a small crystal receiver called the "Marvel". Sales of this receiver were hampered by lack of headsets, so they induced Cohn to set up a small plant to make them. So when R.R. was formed, the company immediately had a product. An attractive crystal set was designed together with accessories: an unique lightning arrestor and porcelain antenna insulators. Thousands were quickly sold to many distributors and department stores all over U.S.A.

Then came a crisis: as summer approached there was a rumor, first a murmur, then a continuous thunder ! "Crystal sets are useless in the summer because of the static..."

Cancellations arrived as rapidly as orders had previously, and the best accounts refused to accept sets already shipped, leaving them at many freight stations around the country.

Radio Receptor was a small privately owned company with little capital so this looked like the end. The company could not meet it obligations.

Then something happened. During the late spring many theaters began to give door prizes. The Universal Film Company, seeking prizes for their outlets held a contest of available crystal sets and R.R. won out ! Soon telegrams began to arrive, "Express 20 sets, Rush, C.O.D.", and so by midsummer they were all gone and the company went on to new fields

The Radio Receptor (the name most historians are familiar with) was officially founded in January, 1922. Excluding the crystal set, its first popular product was a super-heterodyne kit somewhat similar to the Leutz. The company gained recognition at the famous 1924 Radio Show held at the old Grand Central Palace, New York City when it exhibited one of its models -- the very same set now on display in the A.W.A. Museum ! (See photo)

The parts were mounted on a walnut base over 24" long and enclosed in glass. The set is a showpiece since many of the components are gold-plated including the bus bar wiring. It uses (8) UV-201-A's in a conventional circuit except the front end. The circuit is well described by Victor Greiff in a book titled "The Super-heterodyne Manual."

The company introduced other lines during the twenties and thirties including selenium rectifiers, radio components and centralized sound systems for hospitals and institutions. Radio Receptor in time became heavily involved in communication work for the U.S. Army at Ft. Monmouth, VHF equipment for CAA, original installation at La Guardia Field and many other airports.

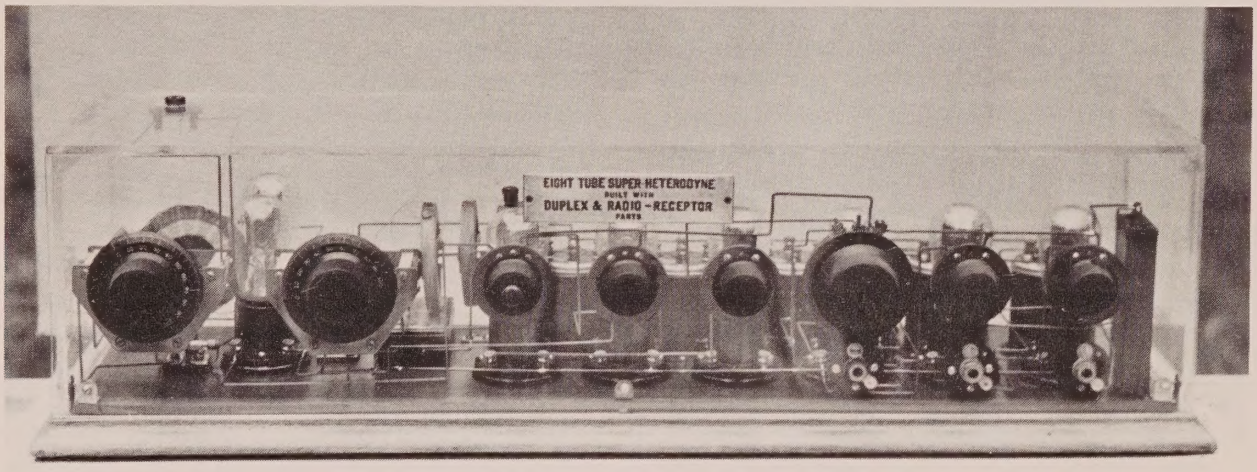
During WWII found the company busily engaged engineering and manufacturing various navigational, landing and IFF systems including the BC-446 series, BC-400, RC-115 and others.

(Cont. on next page)

The company continued in this field after the war and became a leader in air-controlled (UHF systems) for FAA and the Air Force.

The company merged with General Instrument Corporation in 1957 and is still pioneering in communication at its large Long Island plant.

Hugo Cohn, the founder, retired many years ago and is still active in another field: working in the Mayor's Office for the Aged in the City of New York ! A.W.A. salutes its senior member who is now approaching his 88th birthday !



1924 RADIO RECEPTOR SUPER IN A.W.A. MUSEUM

WE'VE GOT IT.

It took 3½ months to ship a box from London, England to Holcomb, N.Y. The material could have been sent on a sailing vessel and transported from N.Y.C. pier to Holcomb by ox-cart in less time.... The story ?

Old time British Marconi historian Bill Maconachie of Chelmsford,England, wanted to donate some material to the A.W.A. Museum. Our Treasurer sent Bill a check for his expenses (shipping, etc.) and then the fun began.

The wooden box was shipped MAY 28 and promptly disappeared. After seven weeks we became uneasy and wrote the shipping company's N.Y.C. office inquiring whether the box had been sent via Cape Horn ?

A prompt telephone call informed us it HAD arrived over a month before and since they had not heard from AWA (??) it had been turned over to U.S. Custom dead storage for eventual public auction as unclaimed merchandise !

The story becomes quite involved at this point including the need for our N.Y.C. Customs Broker to contact the Holcomb U.S. Custom Agent to locate the box and obtain release. (Holcomb would be flattered to know it warranted a Custom Agent -- it has a grocery store and one stop light....)

After pulling numerous strings, long distance telephone calls, Bill back in England writing unflattering letters to the shipping company....President Brelsford was told to be at the Rochester R.E.A. Office in the presence of a U.S. Customs Agent to open the lost box.

Among the old books and magazines, the Agent sniffed out a glass vial hidden in a small box. "What's that ?"

Brelsford glibly informed the Officer that it was of little value since it had been replaced by the cat's whisker... (How's that ?) The crate was duly delivered to Holcomb SEPT. 15. It was well worth the trouble.

In addition to the Marconi coherer (in the box), there were volumes of Marconi Wireless books supplementing our present collection, stacks of 50 to 60 year old wireless magazines including Vol. 1, No. 1 (April, 1911) issue of THE MARCONIGRAPH...plus two small bags of brass Marconi Officer's uniform buttons and cap insignias. Bill is happy. A.W.A. is happy.

1902 -- AN EVENTFUL YEAR

Emperor William of Germany issues an order giving the Slaby-Arco system of wireless telegraphy exclusive rights in Germany.....and

a fast-sending telegraphers tournament is held in Atlanta, Georgia.

On Review

Listed below and on next page is another series of books (reprints) which have been selected by ARNO Press as excellent material for the communication historian. The first series were reviewed in OTB, Sept., 1971 (12-2-71) and proved of great interest since they provided the reader with many rare books long out of print. If you feel the prices are high, remember production costs have gone out of sight in recent years as well as the market for rare books. Those listed at the lower right are carry-overs from the 1971 listing and are still available. We highly recommend Gleason Archer's HISTORY OF RADIO TO 1926.

Address all correspondence to:

ARNO PRESS
A New York Times Company
330 Madison Avenue
New York, N.Y. 10017

This seminal pioneer study helped to inspire both professional and public interest in wireless telegraphy

Lodge, Oliver J.

SIGNALLING THROUGH SPACE WITHOUT WIRES: Being a Description of the Work of Hertz and His Successors. Third Edition

Heinrich Rudolf Hertz, one of the most brilliant experimentalists and physicists in the history of science, in 1888 announced to the world his epoch-making discovery of electromagnetic waves. This interesting study is derived primarily from an illustrated lecture given by the author in 1894 in London, detailing the work of Heinrich Hertz and his early successors. The rest of the volume discusses the work of Branley, Popoff, Slaby, Marconi and Thompson and concentrates on the development and use of the coherer principle and photo-electric phenomenon. **Signalling Through Space Without Wires** proved to be instrumental in spreading interest in wireless telegraphy and wireless experimentation throughout the world.

LC 74-4688 **London, [1900]**
ISBN 0-405-06051-3 **illus.** **$8.00**

Still the most detailed biography of one of the giants in the history of telecommunications

Prime, Samuel Irenaeus

THE LIFE OF SAMUEL F. B. Morse, L.L.D., Inventor of the Electro-Magnetic Recording Telegraph

There have been many biographies written and published about the life of this great inventor, yet Prime's detailed study is still the most comprehensive and important of all. His book is equally valuable because it offers a contemporary viewpoint of Morse and because it extensively utilizes extracts and diagrams from Morse's and other's patents. There is no greater tribute to the importance of this work as a classic reference than the fact that later works continue to cite it extensively. Prime traces Morse's life from his early years and original art career through his trials and tribulations with the innovation of the prototype telegraph system. Accurate and filled with important observations and information, **The Life of Samuel F. B. Morse** is a classic.

LC 74-4691 **New York, 1875**
ISBN 0-405-06054-8 **illus.** **$42.00**

The only comprehensive and detailed history of shipboard radio now available

Hancock, Harry E.

WIRELESS AT SEA: The First Fifty Years

Hancock's study covers the history of shipboard radio from its earliest stages of development through the Marconi experiments and encompassing the modern post-war applications of radar and other technologies. A company-sponsored publication, this book stresses Marconi's vital role in the perfection of the wireless with emphasis on technical developments. It does not, however, ignore the impact of shipboard radio on commerce and politics.

LC 74-4683 **Chelmsford, England, 1950**
ISBN 0-405-06048-3 **illus.** **$16.00**

Reprints from the 1971 listing which are still available:

Schubert, Paul
THE ELECTRIC WORD: The Rise of Radio
LC 78-161139 ISBN 0-405-03560-8 $17.00

Field, Henry M.
THE STORY OF THE ATLANTIC TELEGRAPH
LC 72-5049 ISBN 0-405-04701-0 $20.00

Archer, Gleason L.
BIG BUSINESS AND RADIO
LC 76-161133 ISBN 0-405-03558-6 $24.00

Archer, Gleason L.
HISTORY OF RADIO TO 1926
LC 72-161132 ISBN 0-405-03557-8 $21.00

Dunlap, Orrin E., Jr.
MARCONI: The Man and His Wireless
LC 72-161142 ISBN 0-405-03563-2 $22.00

Dunlap, Orrin E., Jr.
THE OUTLOOK FOR TELEVISION
Introduction by John Hays Hammond, Jr.; Foreword by William S. Paley
LC 73-161143 ISBN 0-405-03564-0 $16.00

Fahie, J. J.
A HISTORY OF WIRELESS TELEGRAPHY
LC 77-161144 ISBN 0-405-03565-9 $20.00

Harlow, Alvin
OLD WIRES AND NEW WAVES: The History of the Telegraph, Telephone and Wireless
LC 70-161145 ISBN 0-405-03566-7 $28.00

Thompson, Robert Luther
WIRING A CONTINENT: The History of the Telegraph Industry in the United States, 1832-1866
LC 72-5078 ISBN 0-405-04727-4 $28.00

One of the best available collective biographies of major pioneers in wireless experimentation

Hawks, Ellison

PIONEERS OF WIRELESS

Here are detailed discussions of leading wireless experimenters, theorists and innovators including: William Gilbert, Galvani, Arago, Michael Faraday, the Hightons, Alexander Graham Bell, J. W. Wilkins, T. A. Edison, D. E. Hughes, Clerk-Maxwell, Marconi, Fleming, Fessenden, Duddell and many more. The collection is well documented, referenced and illustrated.

LC 74-4685 **London, 1927**
ISBN 0-405-06049-1 **illus.** **$22.00**

A useful and compact survey of radio experimentation that spans 50 years

McNicol, Donald

RADIO'S CONQUEST OF SPACE: The Experimental Rise in Radio Communication

Written by a man who participated in many of the important events of which he writes, **Radio's Conquest of Space** is a detailed, fully documented, and scholarly treatment of the technical development of wireless and radio. Starting with the early theories of telegraphy, the author discusses wireless experimentation in the late 19th century, later developments in transmission and reception methods, vacuum tube technology, and early commercial broadcasting. Name and subject indexes are included in this handy and most useful volume.

LC 74-4689 **New York and London, 1946**
ISBN 0-405-06052-1 **illus.** **$21.00**

A basic reference to the business, labor, financial, production and advertising trends in radio up to the mid-1930s.

Eoyang, Thomas T.

AN ECONOMIC STUDY OF THE RADIO INDUSTRY IN THE UNITED STATES OF AMERICA

Originally a Columbia University Ph. D. dissertation, Thomas Eoyang's volume examines the technical aspects of radio, the economics of radio manufacturing (receivers and tubes), and the economics of the radio broadcasting industry up to the mid-1930s. This important reference utilizes many tables and charts to supplement a well-documented text.

LC 74-4675 **New York, 1936**
ISBN 0-405-06041-6 **$12.00**

A unique, detailed and illuminating account of the experiments and role in the early stages of television of Philo T. Farnsworth

Everson, George

THE STORY OF TELEVISION: The life of Philo T. Farnsworth

Philo T. Farnsworth (1907-1971), a television pioneer, experimented in the 1920s to develop the image dissector system that was eventually perfected to the degree that RCA was forced to purchase rights to Farnsworth's patents. This was the first time RCA was the purchaser instead of the seller of such rights. George Everson, one of Farnsworth's financial backers, has written the only detailed biography of one of the last of the individual inventors to succeed in an age of business-dominated research.

LC 74-4677 **New York, 1949**
ISBN 0-405-06042-4 **illus.** **$15.00**

Still the definitive biography of a critically important American pioneer radio inventor-innovator

Fessenden, Helen M.

FESSENDEN: Builder of Tomorrows

Based on her husband's unfinished autobiography and her own letters, Helen Fessenden wrote what remains the definitive biography of one of America's most eminent radio pioneers, responsible for the two-way radio, the wireless telephone, the sonic depth finder and the submarine telephone. Using heavy documentation, she traces Fessenden's life as a series of confrontations and crises interspersed with several important achievements: the alternator principle, the first broadcast station (1906), and heterodyne theory. When it was published in 1940, *The New York Times* called **Fessenden: Builder of Tomorrows,** "a valuable and entertaining biography." *Books* stated that this biography "should be read by all who realize that creative ideas are the only hope of the nation and the race."

LC 74-4681 **New York, 1940**
ISBN 0-405-06047-5 **illus.** **$20.00**

Insights into the early development of radio telegraphy and telephony

Blake, George C.

HISTORY OF RADIO TELEGRAPHY AND TELEPHONY

There was a great deal of important technological experimentation and invention before the widespread adoption of radio communication characterizing the 1920s. With highly technical detail, supplemented by footnotes and a 50-page bibliography, Blake chronologically arranges descriptions, patents, documentary extracts and illustrations, thereby making the **History of Radio Telegraphy and Telephony** an extraordinary reference. The author has included complete coverage of early wireless schemes and developments, carrying his study through the period of rapid radio service expansion during the 1920s. Although technically detailed and comprehensive, his book conveys all of the excitement and wonder of early radio experimentation.

LC 74-4667 **illus.** **London, 1928**
ISBN 0-405-06034-3 **$23.00**

One of the greatest technological achievements of the 19th century — underwater cable laying — is vividly described in this rare and lavishly illustrated volume

Bright, Charles

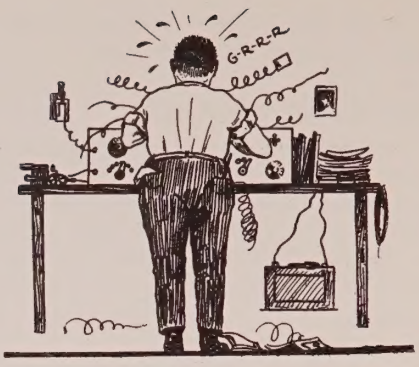
SUBMARINE TELEGRAPHS: Their History, Construction and Working

In 1850 a submarine cable was laid between England and France. After an initial failure in 1857 and several more defeats during the early 1860s, the first completely successful laying of a telecommunication cable between Valentia, Ireland and Heart's Content Bay in Newfoundland took place in 1866. This constituted one of the greatest and most important scientific achievements in an age of many rapid and far-reaching technological advancements. Charles Bright was the chief engineer of the early Atlantic cable-laying firms. His professional account of the early history of failure and eventual triumph in this endeavor covers all aspects of the tremendously complex project. The author's comprehensive and detailed coverage is strengthened by a profusion of contemporary engravings.

LC 74-4669 **London, 1898**
ISBN 0-405-06035-1 **$43.00**

RESTORING OLD EQUIPMENT

How did you SOLVE a problem when restoring an old receiver ? Drop us a note telling how you did it.



GLASS COVERS ON PHILMORE CRYSTAL SETS

Occasionally Philmore Crystal Sets are found missing a glass cover for the crystal detector.I used the glass envelope of a Loctal tube with great success. I removed the glass from the base by scratching the glass carefully where it meets the base with a miniature file. Just keep rotating the tube as you file.

When the scratch is deep enough and even 360 degrees around, hold the glass and gently tap. Try several positions until it breaks off.

I found the glass envelope about the right size and it fits well. Be sure to rub some fine emery paper around the sharp edges.

(Richard Cane, Sunrise, Fla.)

MAINTENANCE PROBLEMS

--- use caution in replacing BH tubes and other types in early "B" eliminators with silicon rectifiers. The newer solid-state devices have little "give" and low voltage drop as compared to earlier types. Result: transformers may "go" or a filter condenser may pop. As a start -- try placing a resistor in series with the transformer primary winding. (Frank Pagano)

Telegraph

Several members including Al Woody, W7WQ, have difficulty finding black EMPIRE CLOTH to cover telegraph magnets (relays and sounders). This is a serious restoration problem. If you know of a source of this material, please write AWA Headquarters.

On the subject of telegraph instruments, members seeking parts for telegraph keys, sounders, relays, etc., may write: Wm. N. Nye Co.
1614 130th Ave., N.E.
Bellevue, Washington 98005

BY WAY OF EXPLANATION

An ad in the September OTB offered "unmounted crystal detectors" for sale at $1.25 each. A quantity of these detectors (base and catswhisker without galena) were found in a warehouse and had been ordered long ago from an old mail-order house (Concord Radio Corp. of Chicago).

Ed Taylor obtained the lot and having more than he wanted offered the remaining to AWA members at a reasonable sum. Unknown to Ed, his bulk purchase was not a prize collection of early detectors but a lot of Philmore detectors still available at a lesser price !

Justifiably so, several members were unhappy when they recognized their purchase as a current item. It was a shock to Ed who is returning the $1.25 to his "victims" and telling them to keep the detector with his compliments....

It really shook up Ed -- who by the way is a nice guy. Goes to show we have some real sharp collectors in AWA who know their business...

The Outlook

The stock market is down and inflation is up-- but after attending several AWA auctions, flipping through a pile of "for sale" lists, it would appear the radio collectors' market is holding its own.

An occasional new interest will spark a certain line or product upward. As an example: the little Pilot TV set made in the late 40's is now working its way to the "hard-to-find" and "pay-through-the-nose" class. This is surprising since the set is postwar and can hardly be classified antique. Try and find one however.....

WITH THE COLLECTORS

Lauren A. Peckham
Ormiston Road
Breesport, N.Y. 14816

ERV RASMUSSEN (Redwood City, Calif.) says collecting out his way has been excellent with the addition of a Grebe CR8, AK-33,40,55, Aeriola Sr. and a beautiful IP-501A with IP-503 tuner. He also found many tubes including special Moorhead/Marconi/DeForest and some nice tubular types.

GUY MARTIN (Glendora, Calif.) still believes in Santa Claus after purchasing the following items in an antique shop: Marconi loose coupler, Clapp-Eastham ½ KW spark xmtr, Colby loose coupler, marble base detector and some United Wireless gear !

WICKARD STEED (Albany, Ga.) went out in the country recently and found a Marconi portable receiver with 5 good valves and a W.E. single button mike..

RICHARD NEIDICH (Camp Springs, Md.) attended his first historical conference and was a successful bidder at the auction on an Aeriola Sr. with a good WD-11 tube.

REMEMBER -- OUR COLUMN DEAD LINE FOR THE NEXT BULLETIN IS JANUARY 10TH..HOPE TO HEAR FROM YOU....

DICK RANSLEY (Sodus, N.Y.) recently acquired a fine Kennedy 220 on a swap deal.

AL JOCHEM (Quincy, Ill.) did very well this past summer with an AK-10B, Grebe CR-8, Kennedy 281 and Clapp-Eastham HR.

CLARENCE FILLEY (Hamilton, Mont.) says wireless gear is scarce in his state but he did find a Bunnell 3 slide tuner, Grebe CR-5 with RORK amp. and an AK 48.

KEN CONRAD (Akron, N.Y.) now has a rare Federal Type 9 audio amp, Universal Wireless wavemeter, Branston super, marble base detector and a bug used by old 4GL.

A.C. STODDARD (Lansing, Mich.) found an interesting early portable made by Operaradio plus some early xmtr tubes such as UV-204 and 211 for his OT rig.

GEORGE BOETTCHER (Dingman's Ferry, Pa.) got a nice AK 4550 breadboard at the Canandaigua Conference along with an early Westinghouse DB dual crystal detector.

JIM WADES (Farmington, Mich.) is one of AWA's younger members who is doing very well. He has a Grebe Syncrophase, Enrock loose coupler, Freshman Masterpiece and a 211-E vacuum tube.

BARNEY WOOTERS (Denver, Colo.) bought out an entire old time station that had been stored in an attic for many years: Paragon RA-10, Navy loosecouplers crystal detectors, etc. A fair percentage of the gear appeared to be pre-WWI including stacks of pre-WWI magazines!

JACK PIPER (Brookhaven, Miss.) tells of finding an AK-40, Stromberg neutrodyne, Radiola 25, Pilot Super Wasp and a RCA Regnoflex with 6 new WD-11s packed in the battery box !

JOE PAVEK (Minneapolis, Minn.) located some real goodies: Murdock rotary spark gap, oscillation xmfr and glass condenser bank plus a Packard 1/2 kw. spk transformer. For a receiver he pinned down a SE-143 with SE-1071 matching detector unit. To top it off, he found a Beepaphone receiver with a Beepotrol ! (no kidding....)

BILL LAVERTY (Egg Harbor, N.J.) has been doing some scouting and located an IP-501 with match. amp., Grebe CR-3 with RORK 2 step amp., couple WE 7-A's, plus boxes and boxes of tubes and parts.

BASIL VAN DER SYDE (Dorset, England) located a little Brown horn speaker and connected it to his modern solid-state color TV set for demonstration purposes. The 1926 contrast works great. BAZ bemoans the fact that many of the old well known British firms are having many of their products made in Japan or Taiwan....

JOHN O'BANNON (Richmond, Va.) ran into a retired man who had been in radio since 1914 and had a barn full of old sets, parts, etc. Some of the items Jack purchased include a Cutting and Washington Type 11 receiver, Zenith 4-R, early spark gear, etc. DeForest D7-A, CR-3, Benwood rotary, etc..good going.

ALEX BLACK (Syracuse, N.Y.) was pleased to locate a mint Radiola 18 and a Federal TRF. Alex says the Federal was stored in a barn and needs a deodorant !

OLD TYME HAM ADS

OLD TYME ADS are FREE to members who are interested in collecting and restoring historical equipment as an amateur. They are not to be abused.

RULES FOR ADS:

1. Material must be over 25 years old.
2. Ad MUST be written on separate sheet of paper --- not part of letter. For acknowledgement -- send S.A.S.E.
3. Give full address, zip number and call letters (if any).
4. AWA will not print repetitious ads or ones indicating regular sale for profit.
5. The Association is NOT responsible for any transaction.
6. AWA retains the right to reduce size of ad.
7. All ads must be received 6 weeks prior to mailing date.
8. Mail to Antique Wireless Assn. Main Street, Holcomb,N.Y. 14469

WANTED: 3 UX-199 vacuum tubes, 2 dials and instructions for lid of Freshman Masterpiece. Also need 80 meter plug-in coil for Crosley Low-wave. Jim Wades, WN8SIW, 34080 Hunters Row, Farmington, Michigan 48024

SELL or TRADE: early radio parts,tubes, crystals and misc. items, old meters (AC, DC, Ma., etc.) no list, state needs. Want Radiola III, VT-1,VT-2 and UV-202. Woody Cook, W9GJS, 410 Brewer Place, Greenwood, Indiana 46142

TRADE: Grebe CR-9, Federal 110, Scott All-wave, W.E. 7-A amp., QST complete 1945-1965. What have you to trade ? B.W. Noyes, 162 Tuttle Road, Cumberland, Maine 04021

WILL DUPLICATE exactly, the mutilated panel for your old radio in trade for antique radios of equal value. Norman Parsons, 22 Forest St., Branford, Connecticut 06405

WANTED:Owner's Manuals or inserts for Federal 57,Westinghouse RC, Jos Jones NYC Special,Airway G, Crosley Pup and 3R3, Radiola Regenoflex. Buy or trade original or copies. Alan Diaz, 24 Mars Avenue, Warwick, Rhode Island 02889

WANTED: W.E. 212-D with socket in operating condition. Trade RCA-204-A with mtg. brackets. Also have brass base antique tubes, open filaments. Send SASE for list. Leland Snith, W5KL, Rte. #3, Jasper, Arkansas 72641

WANT info on old French radio named "Godeweiler". Uses (2) BW1010 tubes in RF & det. & (2) BW604 in AF. Has 2 freq. bands. Year ? Circuit ? Write J. Wasiewicz, W2DQC, 229 Sarles Lane, Pleasantville, N.Y. 10570

WISH to contact owner of POPULAR ELECTRICITY magazines for year 1912 to locate my writings then. Sure appreciate help. Sam Corpe, W6LM, Box 308 Wrightwood, Calif. 92397

NEED: main tuning knob for Thermiodyne TF-6 receiver & (4) WD-11 tubes. Have Freed-Eiseman NR-5 for trade. WB2OTH, G.E. Norman, 239 Old Farms Rd.,Apt. 7-A Avon, Conn. 06001

WANT: RCA 1922 catalog "Radio Enters the Home", also Radiolas Grand, 24, 25, Regenoflex & loop of Radiola 26 port. John Wolkonowicz, 11 Hartford Road, Worcester, Mass. 01606

NEED: Binding post knobs with 10-32 thrd. for DeForest T-200. Want Kennedy 110, IP-500, Triode A Audion box, Marconi & other wireless items. Have DeForest OT-3, BC-14A, Marconi Mark II,IP-501A, etc. to swap or trade. John Brooker, 730 Randolph Rd.,Mogadore, Ohio 44260

FOR SALE: Hallicrafter "Sky Courier", some 800 tubes most in orig. boxes fomr 199's- 210's and up. Tubes to be sold as lot. Donald Farrell, W2GA, 207 Seneca St.,Chittenango,N.Y. 13037

WANT: DeForest D-10 loop, cabinet for Federal 61, AFT (centertapped) for Radiola IIIA. Have D-10 coils,Radiola 25 parts. Don Patterson, 1220 Meigs St., Augusta, Georgia 30904

DEADLINE FOR OT ADS

Jan. 15 ------ March issue
Apr. 15 ------ June issue
July 15 ------ Sept. issue
Oct. 15 ------ Dec. issue

WANTED: Will pay top price or will swap old IRE's or "Radio" all before 1925 and some back to 1915 for US Government Amateur Call Books for 1929 & 1930 in good condition. A.G. Wentzel, W2HX, 318 Gardner Ave.,Trenton,N.J. 08618

WANTED: Metal table cabinet for AK Mod. 55, knobs,volume rheostat for AK-42, brass corner plug (decorative) for AK-37,grid leaks for above and breadboards & parts. Your list. Tom Thomson, Box 634,Iron Mountain, Mich. 49801

FOR SALE: some tubes and 56 issues of magazine titled "Radio" Harry Cap, 190 Beach St., Bridgewater,Mass. 02324

NEED parts & schematic for FADA 1923 5 tube neutro. kit, rheostat & knob, socket, terminal post & fila. switch. Art Harrison, 1021 Falcon Drive, Columbia, Missouri 65201

WANTED: tuning knobs for W.E. 4-D receiver, crystal det. mounts for De-Forest D-10 & D-12 receivers, W.E. loop for WE 4-D. Fred Ritter, W4SKN, 930 First Place, Longwood, Fla.,32750

WANT to complete files:Popular Radio Sept. '22, Feb. '28, Radio - all 1920 and 1921, Oct. '22, Radio Broadcast-July '22, QST Feb.,Mar.,May,June 1920, May '27, Radio-Craft '29. Have dupes to swap. Paul Thompson, 2930 DeLaViva, Santa Barbara, Calif. 93105

FOR SALE: W.E. VT-5 new in orig. ctn. (sealed) $7.50 each plus postage. Also new VT-5, good filament, unboxed at $5.50 plus post. Unused money will be returned. Floyd Lyons, 456 Post St., San Francisco, Calif. 94102

FOR SALE: AK-10B breadboard, Aeriola Jr. crystal set, Crosley Pup, Federal 11, Eagle Neutrodyne & Pilot TV-37 small screen TV. Richard Cane, 8391 N.W. 21st Street, Sunrise, Florida 33313

WANTED: Government surplus R-389 or R-390 Government receivers covering longwave and medium wave. Set must be in good working condition. Stephen Beaulieu, Box 65, Holcomb, N.Y. 14469

WANTED: Pre-war TV (1938 or earlier) such as RCA Model TRK-5, Bill Russell, 6463½ Fulton Ave.,Van Nuys,Calif. 91401

HIGHEST BID: antique tubes-- (3) TB-1 and (8) VT-14's (U.S. Navy CG-1162) all in orig. cartons. Trade Radiola IIIA and 1929-34 copies ShortWave Craft and Radio News for telegraph keys. WB4FDT, Phil Sager, 3827 N. Abington Street, Arlington, Va. 22207

WANTED: (2) Karas Harmonic AFT in working order or otherwise. (see p. 171 of Greenwood's old book, 2nd from left at bottom of page). Ted Woolner, WA1ABP 30 Cedar Rd.,Shrewsbury, Mass. 01545

FOR SALE: Small AK 20, Large AK-20, Radiola III, all good condition. Will pack & ship via Parcel Post. Will accept Post Money Oders only in amount of $40. George Starry, 612 James St., Latrobe, Penna. 15650

SELL WD-11 replacement combination boxed brand new 864 tube with custom made adapter for $7.85 or rebuild your defective WD-11 with new 864 @ $3.85 all 1st class pp. D.B. Whittemore,W2CUZ 36 Masteron Rd.,Bronville,N.Y. 10708

NEED double crystal det. assembly as used on Aeriola Jr. to restore Westinghouse "BD" set.also need regular catwhisker arm swivel type and Radiola "AC" 2 stage amp. George Boettcher, Box 255, Dingman's Ferry, Penna. 18328

WANTED: crystal detector,-Fada,DeForest, Freshman or Clapp-Eastham marble base; Clapp-Eastham or similar enclose var. condenser; loose-coupler, H.E. Falk, W8PP/W8UV, 724 Custer Street, Monroe, Michigan 48161

WANTED: Gernsback or Riders manuals, AK breadboard and parts, Philco 90 or similar cathedral type. Have Steinmetz Elect. Eng. Lib. (7 vol.) for sale or swap. William Irvine, 314 Hamilton St. Rt. 6, Gulfport, Miss. 39501

WIRELESS GEAR for sale including De-Forest Responder, SE-1420, Detectors, catalogs, tubes, etc. SASE for list. Richard Sepic, 1945 E. Orange Grove Blvd., Pasadena, Calif. 91104 Tele. 213-792-5141

FOR SALE: old receivers, parts, TV sets, (from 1948), auto sets from 1940's. Want old QST's, CQ & Radio News. Write: Ed Lindberg, W2CIL, 113 Maple Drive, Bowmansville, New York 14026

WANT: Driver assb. for Magnavox 9" Cornell spkr., 14" wooden bell for Music Master horn; and swap 12" AK Mod. E cone spkr for Crosley Dynacone or other AK spkrs. Charles Day, WA1JFD, 30 Sagamore Dr.,S.Dartmouth,Mass. 02748

WANT: Kennedy 220/525 owner's manual. Cash or trade 1910-25 wireless/radio publications, Pilot AC Super Wasp manual. Greg Dockter, 1913 Kennedy Ave., Bismarck, North Dakota 58501

WANTED: Crosley Pup in mint condition, Federal Jr. crystal set and RADA in good condition. Will buy or swap AK sets, old tubes, parts, etc. Bill Laverty, RD #1, Box 62K, Egg Harbor, New Jersey 08215

WANTED A.W.A. OTB Vol. 3 thru 7, also Radio News 1928 and earlier, RCA sets before 1926-- buy or swap. Alan Smith, 6712 Bisby Lake Ave., San Diego,CA. 92119

WANTED: Schematic or info on how antenna coil is connected in Federal Jr. crystal set. Alvin Heckard, Rd #1, Box 88, Lewistown, Penna. 17044

WANTED: Dead tubes on UV or WD type bases. 40¢ each and postage. Request ship instructions from C. Orval Parker, S.R. Box 13, Pocono Summit, Pa. 18346

WANTED: to borrow panel hold-down bracket for Kennedy V rcvr to make dupe. Will pay ship expenses. Also want Elkay receiver. Dan Gaidosz, 342 West River Rd. Orange, Conn. 06477

OLD TYME HAM ADS

FOR SALE:Hundreds of tubesfrom 1929-50. New and used, all good, many rare types. Quotes on your list. Will trade for magazines,catalogs, pre-1929 parts. Charles Closson, 1290 Glenwood Ave., San Jose, Calif. 95125

WANT: for Federal 61, (2) tuning cond. and small knob for vernier. Swap AK 10B for World's Record Super 10 or Scott AC Symphony. Joe Halser, 2438 So. Howell Ave., Milwaukee, Wis. 53207

FOR SALE: SASE for list of antique radios. Want RF xmfr for AK 10B (cable model) -- type with emboss on top without thumbscrews (connect underneath). Al Jochem, 2047 College Ave.,Quincy, Ill. 62301

RESISTANCE wire for pots, 30-47 ga., enamel or silk, 1¢ per ft. SASE for list. AFT rewound for swap only (takes 2 to 8 hrs. --SASE for details, Need info on ind. sw. for Paragon RB-2A & foto/dimensions for DeForest RJ-5. Alan Douglas, Box 225, Pocasset, Mass. 02559

SELL: elec. motor & turntable, pickup arm and loop antenna from early Brunswick radio/phono, all for $7.50 plus shipping. Geo. Hausske, 1922 E. Indiana St., Wheaton, Ill. 60187

NEED: pulley for AK condenser shaft -- want two. Have AK breadboard parts to trade for other AK breadboard parts. H.H. Kramer, 5413 Rose Ave., Orlando, Florida, 32810

TRADE: Radio Telegraph transmitter, Model ET-8004 made by Radiomarine Corp. of America (less tubes & pwr supply) for power supply for AK Model 40 Mark Thaman, 302 E. Walnut St., Botkins, Ohio 45306

WANT: schematic & restoring info for Federal Type 61 and DX Type 58 receivers. Allen Zellmer, K6MGQ, Sacramento, Calif. 95819

NEED: 5" Murdock spark wheel -- has 12 round ($\frac{1}{2}$") electrodes. Joe Pavek,WØOEP 55 South 12th St., Minneapolis,Minn. 55403

WANTED: Aeriola Jr. & Sr., Radiola Special, Radiola 1, II & Radiola III amp. Have for trade: Radio III in good cond., Meyers RAC3 tube, WD-11, 215A tubes plus a few Canadian made sets for trade. Bernard Payne, VE6OR,116 Palisway S.W. Calgary, Alberta, Canada T2V3V6

WANTED: UTC Type LS-21 & HA-106 interstage AFT, hand generator flashlight with squeeze handle in colored plastic case manu. about 1947. Donald Rathke, 5515 Belmont Ave., East St. Louis, Illinois 62203

WANTED: Crosley Super Trirdyn parts-- audio transformers, tube sockets,foto of bus & wiring or complete chassis. Cash or tube trade. Don Paterson, 1325 N. Mesilla St.,Las Cruces, N. Mexico 88001 Tele: 505-523-5203

WANTED: Filament and lock key for RCA Regenflex, cat whisker for Radiola V. Jack Piper, 402 Bay, Brookhaven, Ms. 39601

WANTED: British Marconi 300 watt triode with 15 volt filament also DeForest round "Audion" with carbon filament. L.J. Schnedorf, W9EWK, 610 Monroe Ave., River Forest, Ill. 60305

SWAP 3 coil honeycomb coils and bracket. Want accoustic tone arm for Gramaphone. John Smith, 1924 Dolphin St., St. Petersburg, Fla. 33707

WANTED: RME-69,70,6900,6950, Hallicrafter SX-17,Sky Champion, vintage ham xmtrs and rcvrs., Bliley xtals and all type components. Richard Cohen, 1883 Ravenwood Way N.E., Atlanta, Georgia 30329

WANTED: FB-7 general coverage coils FB-A,FB-B, FB-C, FB-D and FB-E. If you have them -- what do you want for them? Bill McAninch, W4IIA, 2137 Grayson Place, Falls Church, Virginia 22043

WANTED: Kennedy V hold down brackets for frt. panel, frt. cover and circuit for Radiola Special, DeForest plugin loop & short control lever for Michigan MR-12. Bob Lessard, 4807 N.E. 5th Street, Minneapolis, Minn. 55421

WANTED: old microphones 1920 to 1940, also literature on mikes. Bob Paquette, 443 N. 31 St., Milwaukee,Wisc., 53208

SWAP: books, tubes and misc. for other books, tubes and misc. Send SASE for book list. Radio K4IM, 1201 Riverside Drive, Indialantic, Florida 32903

MAKE OFFER: 10 vol. Hawkins Electrical Guides, Everymans Guide Vol.1-2-3-4, Orig. blueprints & instr. book for Freed-Eiseman Neutro., McGraw-Hill Trade cata (Nov. '26), Crolsey Type D book cond. Cliff Daykin, W2AFE, 19 Oxford Place, Geneva, N.Y. 14456

WANTED: old radio magazines,Modern Electrics,Elect. Experimenter,Radio Broadcast,Popular Radio,Wireless Age,Radio News,Popular Electricity, Pay cash or trade. Erv Rasmussen, W6YPM, 164 Lowell Street, Redwood City, Calif. 94062

FOR SALE: AK var. condensers, Bunnell 20 ohm relay, WE #25A amp., Shure DB mike, SW-3 and FB-7 receivers, old tubes, Jewell Pattern 199 analyzer, numerous other items. Jack Nelson, W2FW, 915 Sherman St.,Rotterdam,N.Y. 12303

SELL: large collection of early radio and wireless material: literature, letters, catalogs, some magazines, parts, phones, tubes and some unusual items. Send large S.A.S.E. for list. Willis Otto, WØDC, 2009 West Tenth St., Davenport, Iowa 52804

WANT: Beehive insulators, round Bliley xtals, pre-'40 Ohmite 200 ohm 10 w. res., green RFC's, Cardwell cond., G.R. 3-4" '25 dials, 203-A socket, Jewell RF amp. mtr. Lou, VE3BDV, 150 Garafraxa St. W., Fergus, Ontario, Canada

FOR SALE: set of Browning-Drake coils with condensers & dials never used $18.00 Also (2) AK variometers $15.00 ea. plus battery radio parts, rheostats, dials, etc. $6.00 Will pay shipping. Arthur Bardish, 4042 Herman, S.W., Grand Rapids, Mich. 49509

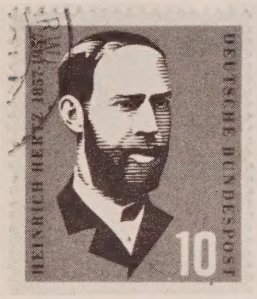
SELL or TRADE Scott Tasman console in fine working order including dynamic expander, diagrams, etc. Interested in crystal sets. Jack Allison, 160 Country Rd., East Patchogue, N.Y. 11772

FOR SALE: rare volumes of MARCONI YEAR BOOK OF WIRELESS TELEGRAPHY AND TELEPHONY (extras). 1914 Year Book: good condition, 740 pages plus 111 page appendix plus large colored world map of commercial wireless stations. Make offer over $30. 1917 Year Book: 926 pages plus 114 page appendix, charts, tables, history, etc. Make offer over $30. 1924 Year Book: Cover slightly torn, 910 plus 80 page appendix. This book hasn't quite the detail of the others, Make offe over $18. Don't send money. Proceeds to go to AWA MUSEUM FUND. L.A. Cundall, 69 Boulevard Pkwy., Rochester, N.Y. 14612

WANTED: schematic & inside pictures & data on IP-501 WSA receiver for restoration purposes. George Guy, WB2TJT, RD #1, Box 66, Wall, New Jersey 07719

FOR SALE: 1921 U.S. Government Amateur call book excellent condition (203 pages) Make offer. Mrs. Nelson, 237 - 84th St., Niagara Falls, N.Y. 14304

New Stamps



Stamp collectors will want to add these two German Commemorative stamps to their collection. They are part of Bill Russell's (VK4MR) radio series. He tells us Italy is releasing a centenary stamp commemorating Marconi's birth (1874 - 1974) which may be available about the time this Bulletin is printed.

---NOTICE---

The OLD TIMERS BULLETIN is published approximately four times a year at Holcomb, N.Y. by and for members of the Antique Wireless Association, Inc., a not-for-profit corporation.

This publication does not accept paid advertising nor is it liable in any way in any buying or selling transaction entered into by its readers as a result of its content. The Old Timers Bulletin is available only as part of the Antique Wireless Association membership fee and its issuance is subject to change as to frequency, content and size from time to time.

Nothing appearing in this Bulletin may be reprinted or reproduced - as a whole or in part - without permission of the Editor.

THE COLLECTOR

On the subject of specializing, AWA member Bob Paquette (Milwaukee, Wis.) easily fits this category since his interest centers on only one item --- microphones.

To date, he has over 300 (!) manufactured in U.S.A. We've asked Bob to send a photo of some of the more rare ones to print in the OTB. Members interested in microphone history should purchase either the December or January issue of AUDIO magazine in which he has an illustrated article on the subject. (He is not sure which issue it will appear.)

Speaking of mikes...Mel Comer sent a news clipping telling of a current Government contract requiring a company to make 12 special microphones which will be capable of operating under temperatures up to 20,000 degrees F. !!

DID YOU KNOW?

2BNX (1928) while at college (Univ. of Penna.) applied for another call in the third district. One night he was invited to the home of 3JM for dinner and on returning to his dorm found his new call waiting for him in the mail - - - you guessed it... it was 3MJ !

He is now W2ML having lost the "MJ"... More ? His current telephone number ends with - - - 7388.

NEW MEMBERS

who are or have been in the communication field.....

G.D. PATERSON, WB5DXN, ex-VE4XZ,VE4PW Electronics Engineer N.S.A. White Sands Missile Range

GARY PRICE, W6IRA Radio Physics Lab. Stanford Research Institute

BOB PAQUETTE (Milwaukee, Wisconsin) Select Sound Service

GARY Wilson, WB8GTN Shand Electric

TOM VILOV, W3FLC, ex-W6HYJ, Command & Data Acquisition Station for Meteorological Satellites.

REV. GEORGE THOMPSON, W9CHP, Engineer Thomson Audio Company

BRAD THOMPSON (Billerica, Mass.) Senior Electronics Design Eng.

GEORGE CAPEN, W9IWN Magnavox Corp.

DONALD DE NEUF, WN1SPM, ex-6ACZ Retired Pres. Press Wireless Inc. Consultant on Telecommunications

GEORGE FREDERICK (Lincoln, Nebraska) Stations KLMS, KLOL, KECK, ETV Network

BERNARD PAYNE, VE6OR, ex-VE6JI Alberta Government Telephone

STEPHEN CISLER (Louisville, Ky.) ex-9SX Stations WKYW, WXGI, WWSO, KEAR, WLVL

GEORGE DRISCOLL (Rochester, N.Y.) ex-W8BAW, 8GWO, Stations WHAM, WOKR

HAROLD MOORE (Riverhead, N.Y.) RCA Development and Design

CHET WISNER, W1VSR General Electric Instrument Laboratory

MATTHEW KRIM, WB4ANJ/W2MMO Commercial Ship Operator, Standard Oil Company

RUMORS TRUE!

The singing telegram is no more! Started in 1933 and very popular in the late '30s, the melodious message passed from the communications scene recently when the California PUC finally allowed Western Union to withdraw its offering of the singing greeting service. The California PUC action came after the service had already been discontinued on an interstate basis and for intrastate service in 45 states and the District of Columbia. So . . . with demand averaging only 12 singing telegrams a day (at $3.75 each) and with Western Union having trouble finding operators willing (or qualified!) to warble . . . the bell has tolled for the singing telegram.

1902 -- AN EVENTFUL YEAR

R.A. Fessenden procures U.S. Patent for a system of radio signaling employing longwaves.

NEW MEMBERS

A.W.A. welcomes ALAN SHAWSMITH of Brisbane, Australia who is a fellow key collector. Dx men immediately recognize his call since he has been active forty years using the call VK4SS. Alan spent his early years as engineer at several Australian broadcast stations and is a member of S.W.P.

Another new member who has spent nearly 40 years in the radio field is HAROLD MOORE of Riverhead, N.Y. Immediately on leaving school he joined RCA Communication Design & Development group working at Riverhead and Varick Street. He has a modest collection of 50 receivers and specializes in classics such as Scotts.

Membership

As A.W.A. continues to grow, one may ask "Are our interests and objectives changing -- do we need to change OTB format ?" It would appear not.

AWA's IBM scroll lists nearly 1200 members of whom 900 are interested in historical material...and who are these members ? Typical are the two noted above: Alan Shawsmith (Brisbane, Australia) a radio "ham" and key collector and Harold Moore, radio engineer and receiver collector. This tells us a fair portion of the OTB must be devoted to the historian and collector.

A goodly percentage of these collectors are radio amateurs/engineers, but there are hundreds who are not and for this group we have much admiration.

Experience has shown that many who have not been exposed to radio are frequently the most knowledgeable collectors: they know the make of most receivers, basic circuitry, component makeup, restoration problems and set value.

They are avid readers of old books and magazines and carefully examine old equipment at every AWA "meet". They want information -- and AWA will try to continue to provide it.

Quaser Electronics Corp. is Born

Matsushita Electric Industrial Co., Ltd. has closed the agreement with Motorola, Inc. for the purchase by Matsushita of the operating assets of Motorola's home television receiver business.

/Matsushita will operate the acquired assets through a new company called Quasar Electronics Corp., which will be a subsidiary of Matsushita Electric Corp. of America. The new company will market its TV sets under the "Quasar" brand. Matsushita's "Panasonic" brand products will continue to be marketed through their distributors in the U.S., Canada and Puerto Rico.

THE TUBE COLLECTOR

Conducted by Gerald Tyne

The DeForest Type "H" was one of the earliest high-frequency transmitting tubes offered for sale to the amateur fraternity. It was short-lived since it had strong competition from RCA's UX-852 which was available shortly after the "H" tube release. It was first advertised on page 1 of the January 1926 issue of QST. As noted, it was designed for wavelengths in the 1-100 meter part of the spectrum. There was also a half-wave rectifier of same structure known as Type "HR". Neither tube had a base, the connections being brought out with heavy wire.

DE FOREST

TYPE-H

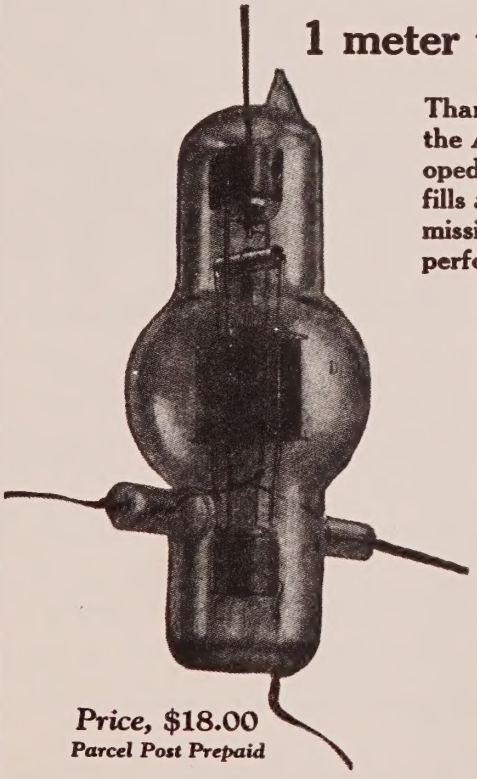
TRANSMITTING TUBE

Reliable

LONG DISTANCE COMMUNICATION

on

1 meter to 200 meters



Thanks to the co-operation of members of the A-R-R-L, De Forest has further developed the Type-H tube to a point where it fills ***all*** the requirements of amateur transmission. The result is still more uniform performance with extended filament life.

Technical Data

INPUT RATING 150 WATTS

Plate Voltage	500—3000
Plate Current	40-50 MA.
Fil. Voltage	10
Fil. Current	2.35A

HR Thermionic Rectifiers

Will operate 4 H Tubes

Fil. Voltage		10
Fil. Amperes		2.35
Plate Voltage A. C.		2000
Plate Mill Amps.		250 Max
Voltage Drop	400 at	250 MA
PRICE	$16.00	

Price, $18.00

Parcel Post Prepaid

Sold and Shipped Direct

Upon Receipt of Money Order

139 Franklin St. DE FOREST RADIO CO. Jersey City, N. J.

A.W.A. ON THE AIR

Send all old time transmitter activity and net operation news to: Ken Gardner, W2BGN
42 Oakdale Ave. S.
New Hartford, N.Y. 13413

The ANNUAL CONFERENCE at Canandaigua drew a tremendous number of active Hams and participants in AWA nets and contests. We Didn't hear any spark activity but we did hear an arc. W3QA and W3KKY deserve a big hand for vaporizing the alcohol and producing that sweet old sound. We understand that someone is working on single side-band spark !

Old Time Xmtrs were on exhibit and placed in competition with a TNT by VE3BDV taking the Blue Ribbon. Others shown were by W1PEG, W8TE, W2BJI and Peckham. A picture of WØTRF was also on display and the swinging signal of W2BJI intrigued the gathering at the Saturday 11:00 AM Session where many details of Contests were discussed.

VACATIONEERS operating as portables checking in were W2SHN/2 from Cortland and W2AXX/2 from Old Forge. Kelley put Boonville on the Net with W2QCP. On CW were W8AQ/1 Wells Beach and K2NP mobile anywhere in the 1st, 2nd and 3rd districts.

THE TUESDAY 8:00 PM Net propagation has been good this fall with W4DBT, W4ACG, WB4CRH and W4SHU rolling in from the South. Newcomers are W8DUX, W8VYU, WB2CAD and W3AXW.

THE 4:00 PM Net welcomes back K2WW, W2BG, W1DMD and W1DM. Art, W1DM just returned from Spain and brings home tape recordings of 600 meter ship and shore traffic with all the varied European call signs. We hope to hear it at some future AWA Meet.

W1AW is a newcomer on the 4 PM Net and brings in his sideswiper in with great gusto ! Suppose we should set up a "swingers" club ? That makes three now on the Net: W8BKM, W8AQ and W1AR. Now we need W3DUG and W1DI to round out the count. Any others ? Sweet music rattles the Baldies when these experts QSO in their slightly differing styles. Bring your sideswipers to an AWA Meet and lets see them -- better still, we will provide an oscillator and hear them !

Modern Solid state modifies fists to sound like tape and Wells (K4QF) treated the 1st Wed. 8:00 PM Net to a fine exhibition on his "poke board".

W2LV, NC for the SSB Nets hasn't been on the CW Nets much of late because he has been chasing contacts via satellite...and just as we were typing this report word comes in that Bob made a long sought-after contact with New Mexico via Satellite with none other than AWA member Dick Hilferty, W5TOS, one of our contestants. Perhaps we can add a satellite frequency to our table. The contact was also another first: the QSO was in Morse Code and not Continental ! (The OLD CODE as Stu Davis, W2ZH prefers to call it..) Wonder if they used sounders ?

JUDGING by requests for information and parts on the Tues. PM Net, the operating gang are doing quite a bit of restoration and building...perhaps for an entry in the OLDE TYME CONTEST slated in January...

50TH ANNIVERSARY QSO LISTING

UP-DATING the 50th ANNIVERSARY LISTING we have:

K2NP (1YK) -- W8AQ (1AAC)
1922 -- 1973

W4JT (2CSQ -- W2AGQ (2AGQ
June 1924 -- Aug. 1974

Communications in 1984

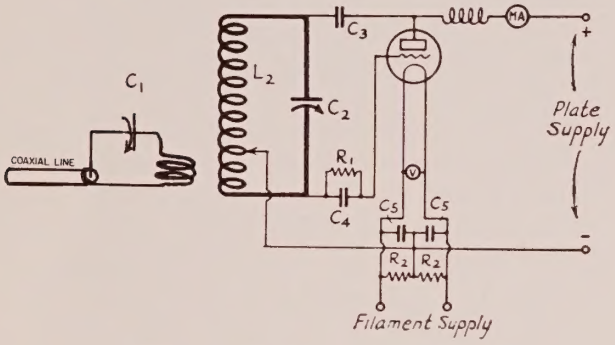
	1974	1984
Telephones installed	145 million	203 million
TV sets in use	117 million	200 million
Radios in use	383 million	600 million
Two-way transmitters	10 million	20 million
CATV subscribers	8 million	30 million
Facsimile sets	102,000	300,000

MODERN OPERATION WITH OLD TIME TRANSMITTERS

Ken Gardner, W2BGN

HARTLEY CIRCUIT

The Hartley oscillator was a favorite of John Reinartz, Tech. Editor of QST and was used by hams at all power levels from the early 20's until xtal control took over. It is efficient and stable, provided all the precautions are taken as noted in the previous article on the TNT are observed. The proper point for the filament tap on coil L2 is as near the grid end as possible and still maintain stability. The plate coils are the same for both TNT and Hartley xmtrs: 12 turns for 80 meters, etc. Full description can be found in any early ARRL Handbook.



CIRCUIT OF THE HARTLEY TRANSMITTER

V — Alternating current voltmeter, 0-10 volts.
MA — Direct current milliammeter, 0-100 milliamps.
C_1 — 500-μμfd. receiver-type variable condenser.
C_2 — 500-μμfd. receiver-type variable of good quality.
C_3 — 500-μμfd. fixed condenser.
C_4 — 250-μμfd. fixed condenser.
C_5 — 2000-μμfd. fixed condensers.
(These fixed condensers should be high-grade 500-volt receiver-type condensers or special transmitting type.)
R_1 — 10,000-ohm transmitting grid leak.
R_2 — 50- or 100-ohm fixed resistors or Christmas-tree lamps.
RFC — 160 turns of No. 30 gauge d.c.c. wire on ¾"-diameter wooden rod.
L_1, L_2 — Plate and antenna coils described in text.
Wooden baseboard 10" x 12".

Two glass towel bars and wooden supports for same. Four terminals or Fahnestock clips, miscellaneous wood screws, machine screws, wing nuts, clips, copper strip for connections and brackets, 14 gauge enamelled copper wire for connections shown in light lines.

OLD TIME TRANSMITTER CONTEST

DATES: Wed., Jan. 15, 6:00 PM to
Thurs., Jan. 16, 6:00 PM EST.
Thurs. Jan. 23, 6:00 PM to
Fri., Jan. 24, 6:00 PM EST.

FREQUENCIES: 3580 to 3590 Kh. for Old Time Transmitters
3590 to 3600 Kh. for Modern Transmitters
7040 and 14084 plus or minus 5 Kh. for either types.

(Stay off W1AW, 3581 and 14080 Kh.)
Concentrate 40 & 20 QSO's on the hour.

OBJECTIVE: Work the greatest number of AWA members. When calling use as ex: "AWA AWA de W2AN" On contact, exchange year of equipment such as "TX 36 RX 30"

SCORING POINTS:

1 for QSO with 1940 or later station
2 for QSO with 1939 or earlier TX or RX
3 for QSO with 1939 or earlier with both TX and RX.

POINTS MULTIPLIER:

2 for station using 1939 or earlier TX with over 50 wtts. input.
3 for station using 1939 or earlier TX with less than 50 wtts. input.
2 for station using 1939 or earlier RX of superhet type.
3 for station using 1939 or earlier RX of regenerative type.

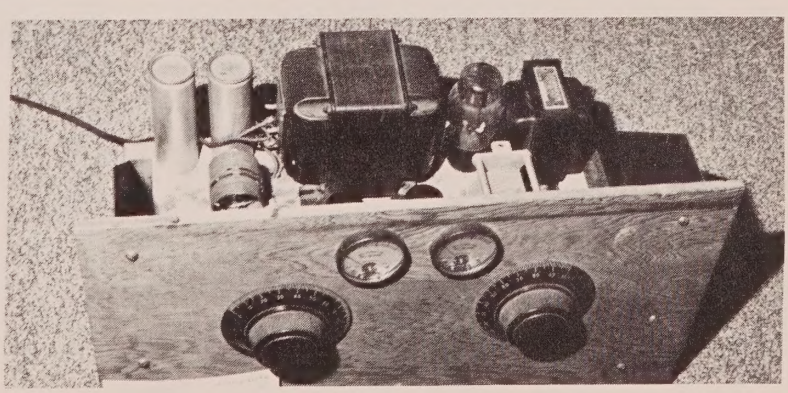
EXAMPLE:

Stn A, TX 30 RX 33; Stn B, TX 25 RX 70
Points for A = 2 Points for B = 3
Mult A (100w)= 2 Points B (20w)=3
Mult A(regn) = 3 Points B(supr)=1
Score 2x2x3 = 12 Score 3x3x1 = 9

Rules: A station will be scored once only on each band. Crossband contacts will not count. Non-member contacts will not count. Please do not call your friends for a contact ! Send logs to W2BGN or W6SAI.

1974 OT CONTEST WINNER

At right is the 20 and 40 meter transmitter used by Dick George, WØTRF in the '74 OT CW Contest. It uses conventional pre-war parts and consists of a single 6L6 xtal osc. driving a single 6L6 RF amp. A pair of 807's as pushpull osc. was used on 80 meters.



NEW GEAR AT A.W.A.

TRANSMITTING GEAR: W1CX, W2PZN

PHOTOGRAPHS: WA1HDP

TUBES: Irvin Weir, Dan Gaidosz, Garnett Frank

RARE LICENSE: W3EFX

RECEIVER: George Greene, N.R.L.

MISC. : W2ZK, W3AW, Bob Lozier, Dick Ransley, N.R.L.

WRITTEN MATERIAL: Garnett Frank, N.R.L.

A.W.A. Library recently acquired a complete set of POPULAR RADIO and RADIO BROADCAST magazines beautifully bound in mint condition from Garnett Frank who obtained them from Clarkson Tech. The Association has miscellaneous copies of these magazines but not a complete set. "Radio Broadcast" magazines contain excellent material for the radio historian and are frequently used for reference by Gleason Archer in his book "History of Radio to 1926".

In addition to magazines, Garnett sent the Association a large assortment of early tubes many of which are very rare -- such as WWI "R" tubes in original boxes.

Another valuable addition to the Association's Amateur Station W2AN is a BC-610 transmitter donated by Jim Brush, W2PZN. This piece of equipment was designed by Hallicrafters in the late 30's (HT-4) and was the ultimate in amateur design at the time giving it now a certain historical value.

A military version of the 610 was made at the outbreak of the war and it became the workhorse at numerous headquarters. It is heavy (as George Batterson's truck crew will testify) and well constructed with a single 250TH in the final and a pair of 100TH's as modulators.

What is the largest quartz crystal you've seen ? The next time you visit AWA Museum, ask to see the 15 pounder left by W3AW !

Rex Matlack's research on WWI espionage centered on the old German Sayville station benefitted AWA. Rex obtained and gave the Museum Apgar's original 1913 license. A rare document which will have a prominent place in the station area.

1902 -- AN EVENTFUL YEAR

Lord Kelvin pays a visit to the United States.....and

A.E. Kennelly is appointed professor of electrical engineering at Harvard.

ANNIVERSARY YEAR

On October 27th the Hazeltine Corporation had open house at Greenlawn, L.I., N.Y. to celebrate its 50th Anniversary. A.W.A. member Jack Allison and the Smithsonian loaned early equipment (including a neutrodyne !) for the occasion.

The company played an important role in radio development. In addition to Alan Hazeltine, Jack Binns was also a pioneer with the organization. The following copy is from the Anniversary Program:

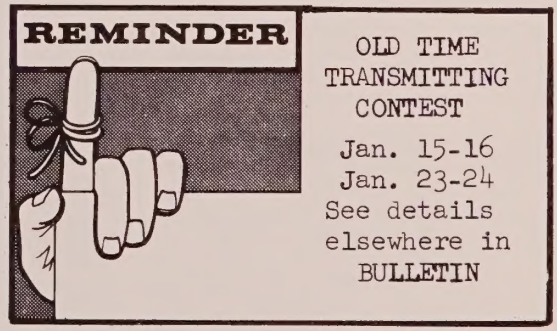
When radio broadcasting started, receivers were difficult to use because the controls were very critical to adjust. If you didn't get things just right, you might not hear the station at all, or you might get squeals, which were annoying and interfered with your neighbor's reception.

In this environment, Professor Alan Hazeltine of Stevens Institute of Technology designed the first really practical home radio receiver, solving these problems with a "neutralizing" circuit. This type of radio receiver was an instant success and became known by the trade name "Neutrodyne."

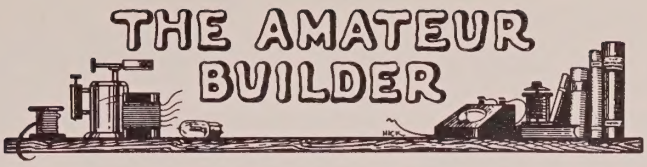
On February 1, 1924, Hazeltine Corporation was established to license this and other patents of Professor Hazeltine. The company started with a small laboratory in the attic above Professor Hazeltine's office at Stevens in Hoboken, New Jersey. The Chief Engineer was William A. MacDonald, who later became President and then Chairman of the Board (1952-1961).

Independently, a young and ingenious undergraduate student at George Washington University named Harold A. Wheeler had also developed the concept of the Neutrodyne circuit and, somewhat by chance, met Professor Hazeltine. A strong professional association developed between the two, and Wheeler, while still in college, became one of Hazeltine Corporation's original employees.

Young Wheeler soon became interested in solving another of the early radio receiver problems—the need to adjust the volume control when changing from station to station, or whenever the station's signal faded. He developed and demonstrated the first practical automatic volume control circuit (AVC) to solve this problem. AVC came into wide usage and is still used in all AM radio receivers, and now in all television receivers.



Federal Telephone
& Telegraph Co.



Practical Ideas

REMOVING EMBEDDED COMPONENTS

The following "Problem Solver" was written by A.W.A. member Jim Fred and featured in his column "Antique Radio Corner" in the May-June issue of ELEMENTARY ELECTRONICS magazine. (Copyright 1974 Davis Publications, Inc.)

Old-fashioned Tar. Removing imbedded components in the early AC radios seems to be one of the subjects most often mentioned by my readers. Potted or embedded components are usually transformers, condensers, and choke coils. The potting compound was usually pitch, or a hard wax. When restoring a set with imbedded parts the first thing to do is to determine what part is defective. On some sets, such as the early Atwater Kents, this is no easy matter. The power transformer, filter choke, and output transformer are imbedded in a large container with room left to slip in a can containing six condensers. Then, to complicate matters, the parts are interconnected and pitch poured over them, leads and all.

Many battery receivers had audio transformers potted into individual cans. You can usually isolate the defective part with an ohmmeter. Then you decide whether to take the cowards' way out and hide a replacement transformer under the chassis or do a professional restoration by removing the defective part and repairing or rewinding it.

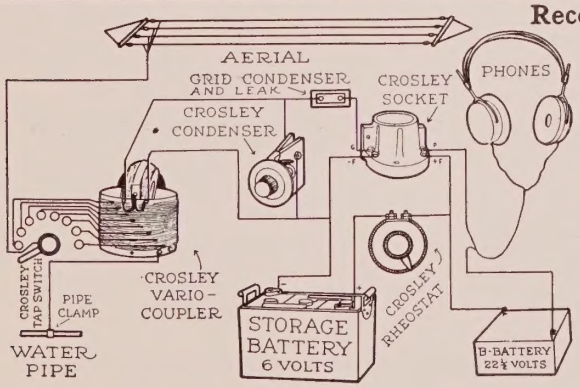
If you decide to remove the imbedded part there seem to be three basic ways to do it. I have tried all three, and the one you use depends on your facilities and personal preferences. These three methods are as follows.

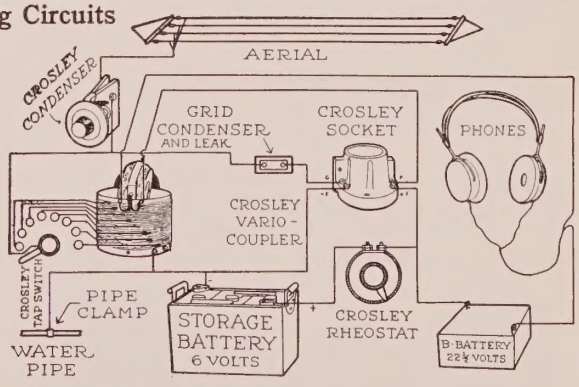
1. Use heat to melt the potting compound and remove the part. When doing this there are a few facts to consider. You should do it outdoors unless you have a barn or other non-living area to work in. Use a very low heat, just enough to release the part. An electric hot plate or oven is ideal for this purpose. Keep the melted-out compound so you can pour it back into the restored container. If there is still a film of compound on the part you will have to disolve the balance. (See method three.)

2. Put the parts container into a freezer and wait for the compound to become brittle. Regardless of what some restorers say, I was never able to get the compound cold enough in a home freezer. The best results I had was by using an environmental chamber set to −55 deg. C. which is −67 deg. F. When the compound becomes brittle it can be chipped away with a screwdriver and hammer. Again the film of compound left can be removed with a solvent. (See three.)

3. The third method is to dissolve the potting compound with a suitable solvent. This method is slow, less dangerous, creates very little odor, and can be left unattended. Initially, solvent is poured into the inside of the container and you wait. As the compound dissolves you pour out the dirty solvent and pour in new. You can filter the old solvent and reuse it. I have done many filter capacitor cans this way with good success. One of the safest, non-toxic solvents is Clorathene. Be very careful if you use gasolene, naphtha, kerosene, or fuel oil.

Receiving Circuits





ANTIQUE WIRELESS ASSOCIATION INC.
HOLCOMB, NEW YORK 14469

"An amateur organization devoted to the history of wireless"

OFFICERS

PRESIDENT
Charles Brelsford

VICE-PRESIDENT
Kenneth Gardner

CORRESPONDING SECRETARY
Bruce Kelley

RECORDING SECRETARY
Henry Blodgett

TREASURER
Lincoln Cundall

ASSISTANT TREASURER
Dexter Deeley

BOARD MEMBERS

Henry Blodgett	(3)	Joe Marsey	(2)
Al Crum	(3)	Dick Ransley	(2)
Harry Lott	(3)	Dexter Deeley	(1)
Harold Smith	(3)	C. Dengler	(1)
Geo. Batterson	(2)	Larry Triggs	(1)
Cliff Daykin	(2)	Bruce Roloson	(1)
Lauren Peckham	(2)		

ADVISORY BOARD

Bob Merriam	W1NTE
Bob Morris	W2LV
Lou Moreau	W3WRE
Ed Redington	W4ZM
Thorn Mayes	W6AX
Warren Green	W7JY
Frank Wingard	W9EWH
Joe Pavek	WØOEP

HONORARY MEMBERS

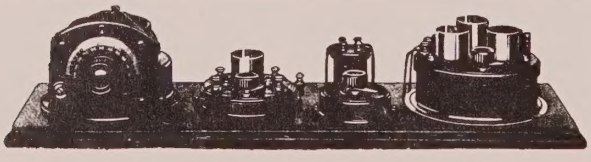
Marion Armstrong, Geo. Grammer
Lloyd Espenschied, Harry Houck
Clarence Tuska, Elliot Sivowitch

HOUCK AWARD Bob Morris (Chairman)
Bill Gould, Thorn Mayes

ATTORNEY
Sherwood Snyder, W2KFU

PHOTOGRAPHER
Al Crum, W2BWK

AMATEUR STATION: W2AN



Who's Who

Meet Bill Breniman, Editor-in-Chief for Society of Wireless Pioneers... Bill is somewhat a modest fellow considering the tremendous work he turns out for S.W.P. -- Newsletters, Yearbooks (fantastic is the word !), etc.

Since his picture seldom appears in his many publications, Thorn Mayes volunteered to take one for the OTB so the "gang" back East would know what this hardworker looks like.

MARRIED PAIR IN P&O CREW

By ROBERT BEDLOW, Shipping Correspondent

TO COMBAT the growing shortage of Merchant Navy officers, P & O the world's largest shipping company, is to encourage married couples to serve together aboard the same vessels.

This unique experiment for British shipping was disclosed on Saturday when the refrigerated cargo vessel, Taupo, 10,000 tons, docked at Avonmouth.

Working side by side on board were Mr Richard Banham 26, of Fleetwood, Lancs, the first refrigeration officer, and his wife, Elisabeth, a New Zealander and the ship's first radio officer.

Mrs Banham, 23, of Wellington, joined the ship last September as a single woman. She was one of the growing number of women now serving as officers aboard British merchant vessels.

Courting at sea

Their courting was done over 48,000 miles of ocean — as the vessel made two trips from New Zealand to Britain and back.

In May the couple were married in New Zealand and P & O said they could continue on the same vessel together.

Capt. Bryan Austen-Smith, the ship's relief master, said: "The whole thing seems a superb idea. After all, there are women judges.

Mr Banham said that his 20 fellow officers and the crew had "loved" the idea. He said: "Our first home has been a two-room flat on the ship.

Meet for meals

"The bedroom is my wife's cabin, because she has to be on a level with the radio room, and we use mine as a day room."

P & O said: "We think the idea is very good. We are watching it closely.

"We hope that the Banhams do not have to be parted and serve on separate vessels.

When the Taupo docks at Liverpool this week, Mrs Banham will go for a four-month radar course at Fleetwood. Her husband will take four months' leave and spend it at his parents' home in Fleetwood.

It is thought that their combined income is between £6,000 and £7,000 a year.

Clipping from S.W.P. Newsletter
(Ken Woodman)

GOOD READING

MAHLON LOOMIS ----

Historians interested in the work of this early pioneer have another publication to read. Joe Rice (W4RHZ) has gathered material on Loomis and his kite experiments of the 1860's and has written an interesting booklet complete with pictures and sketches which is available for $1. Write: Joe Rice, 916 Western Avenue, Covington, Kentuckey 41011

Tesla

Historians interested in the work of Nikola Tesla may write to the following book importer who has available several books on the subject under the heading "Yugoslavia":

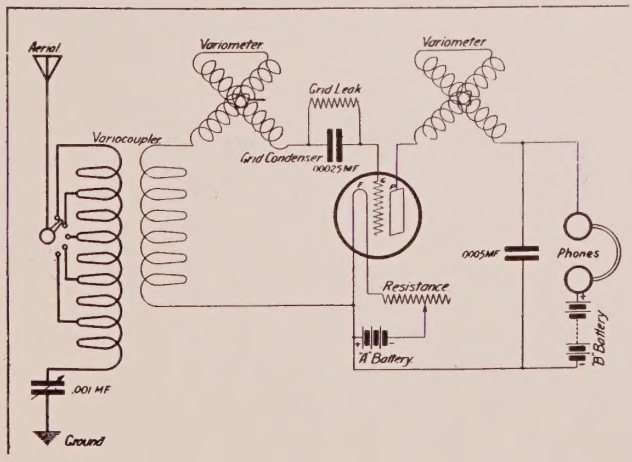
Arthur Vanous Company
1 Richard Court, River Edge, N.J. 07661
(Copy from Nick Basura)

You Can't Go Back

While scanning a current book listing I noted their 1975 Amateur CALL-BOOK (USA) was being offered for $12.95 plus .75 postage while the DX counterpart could be purchased for $11.95 plus another .75 for a grand total of $26.40 Remember when the two were printed in one volume and available for a buck ?

The same listing also offered the new 1975 A.R.R.L. HANDBOOK, one of the best technical books ever printed, for only $5.50 Congrats to A.R.R.L. for keeping the price down.

Standard Regenerative Receiver.



ENJOY OLD RADIO-TV

Re-live those early days in

A FLICK OF THE SWITCH

—our new 1930-1950 book

Here's your time trip to the great days of radio broadcasting and the dawn of television. Revisit the Lone Ranger, Atwater-Kent radios, Will Rogers, Scott All-Wave, old "Ham" days and many more.

You'll read about the people and programs that swept us into a new era. You'll get a chuckle out of old-time radio ads. See over 1,000 sets that will become collector's items, and discover the rewards of collecting as a hobby.

You'll have a great time reading and re-reading this book. When you're through, put it on your shelf as the new standard collector's reference on 1930-1950 radio and television. High quality, 240 pages, $9.95 deluxe hard-cover or $6.95 handbook.

Noted above is the latest release by Morgan McMahon...It appears to be another great book for the collector. Interested ? Send check for sum noted to: VINTAGE RADIO Box 2045 Palos Verders Peninsula Calif. 90274

RADIO HISTORY IN VIRGINIA

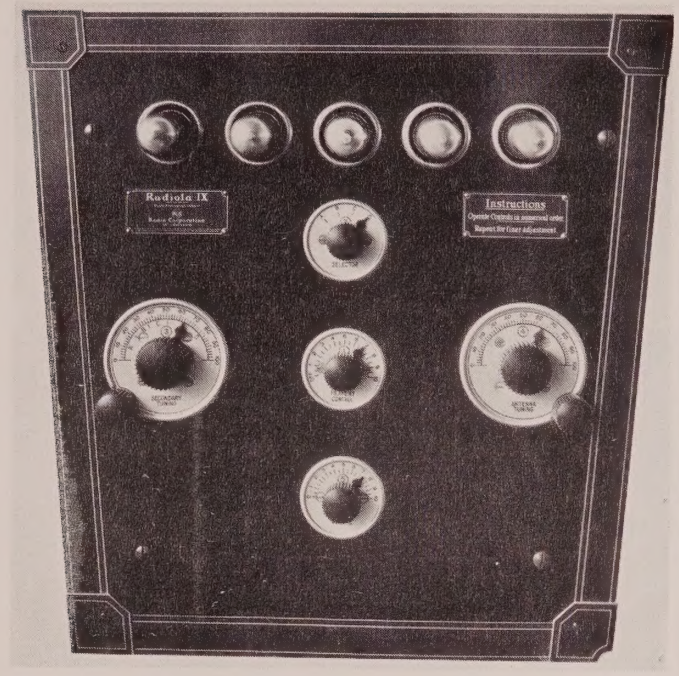
Phil Sager is compiling radio events that have taken place in the State of Virginia. He would like to hear from members that have knowledge of any outstanding or unusual event -- amateur or commercial.

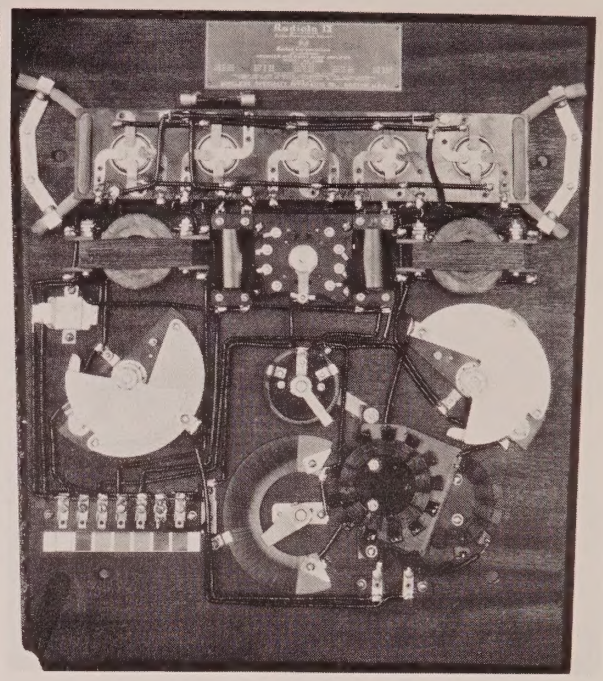
Phil Sager, WB4FDT
3827 N. Abingdon Street
Arlington, Virginia 22207
(703) 536-6860

SCIENCE FAIR: STORY OF ELECTRONICS

Several hundred of these illustrated booklets (provided by Tandy's RADIO SHACK) were passed out to members attending the recent Conference. Although of cartoon format and directed to the novice, subject matter is written in an engaging manner making the reader want to find his way thru all 24 pages. Author ? -- none other than AWA member Bill Palmer, former Editor of ELECTRONIC DIGEST.

THIS MONTH'S BROADCAST RECEIVER





RADIOLA IX (AR-1395)

Few collectors can claim the ownership of a Radiola IX for two reasons: low production and the circumstances under which it was used. The IX was called a "Phonograph Radio Adjunct" and was normally mounted in a phonograph -- frequently inside the upper hinged cover (Victrola and Columbia Grafonola).

Unlike table model receivers which (fortunately for collectors) ended up somewhere on a shelf, the IX became obsolete the same time as the old phonograph and was hauled away to the dump.

The circuit is very similar to another rare Radiola: the VII- B. It uses (5) UV-199's: 2 untuned RF, regen. det. and 2 AF and sold for $215.00 The purchaser usually made his own installation in the phonograph.

The most interesting thing about this IX is something we almost overlooked -- it was made for RCA by Wireless Speciality Apparatus Company of Boston -- the lesser known of the three manufacturers making RCA products. (Photos WA1HDP)

Sometimes they do

A.W.A. Editors don't feel too bad when they "goof" now. Seems several members called their attention to a photograph in the prestigious NEW YORK TIMES (p. 24, Oct. 15) showing Marconi and his assistant Kemp purportly receiving the letter "F" (according to the caption) from a paper tape as it unrolled from a Morse Register.

The occasion ? Receiving the first signal across the Atlantic at Signal Hill, Newfoundland (1901). To make matters worse, the two gentlemen were immaculately dressed for a social event.

ABOUT THE COVER

A break from fall housecleaning as DX rolls in on the old regen receiver: Cover of Sept. '27 QST

Anniversary

Congratulations to VALPO TECHNICAL INSTITUTE on its 100th Anniversary. Many A.W.A. members graduated from this pioneer school which claims to be the oldest electronics school in the Western Hemisphere. It was founded in 1874 and was originally called the DODGE INSTITUTE OF TELEGRAPHY.

(Larry Briggs, W3MSN)

BILL HARDER (Lansing,Mich.) is another owner of a rare Mignon receiver (RLC-5). It is very similar to the RLC-2 pictured in OTB 10-4-17. In all probability it was used to tune in NAA time signals since it was found in a jewelry store. Bill also has an enclosed glass set (circa 1923-25) which is a real eye-catcher. Glass panel jobs were usually custom-made -- at least we never heard of one being made commercially--- have you ??

Marconi

■ **According to the "Monmouth Message,"** a steel radio antenna tower, known as Marconi Tower, was re-erected at Fort Monmouth, New Jersey, recently after having been blown over by high winds nearly three years ago.

The tower had been hauled to Fort Monmouth's Evans Area where it was refurbished. Many rusted parts were replaced, and the entire tower repainted. Repair work was done by the Wall Department of Public Works and local high school students hired by the township during the summer.

The 97-foot tower is the last of some 30 towers built between 1913 and 1914 by the American Marconi Wireless Company for the first regular trans-Atlantic radio communications. During World War I it was run by the Navy. In 1920 it was returned to the private ownership of the newly formed Radio Corporation of America (RCA) which had acquired the Marconi Company property. Use of the towers was discontinued in 1924.

Designated as a historic site by New Jersey, the tower is also used as part of Wall Township's insignia.

SILENT KEYS

WALT ROGERS, W1DFS, ex-3XM, 3DH Melrose, Mass. Former employee of Raytheon, Murdock, etc.

GERALD CUNNINGHAM, Ft. Wayne, Ind. Collector of early equipment

JACK JEFFORDS, W2WS,ex-2BCK,Fayetteville, N.Y. G.E. Engineer, Commercial "op" United Fruit, etc.

DON COOPER (K3WGK) and his wife Virginia Cooper both of whom disappeared during a flight in their private plane. This is a double tragedy to A.W.A. since Virginia is the daughter of pioneer engineer and A.W.A. member Lou Clement.

DE FOREST RADIO TEL. & TEL. CO.
1391 Sedgewick Ave. New York, N. Y.

SOCIETY OF WIRELESS PIONEERS

A new chapter has been formed in the Washington, D.C. area known as the CAPITAL CHAPTER. Congrats to "Tex" DeBardeleban for his efforts in bringing area members together. We note several of the founding officers are also AWA members.

Present or former commercial operators interested in joining the Society of Wireless Pioneers are advised to write Bill Breniman for membership application: P.O. Box 530, Santa Rosa, California 95402. If you are already a SWP member and wish to join the Capitol Chapter, write "Tex", W4TE, 2012 Rockingham St., McLean, Virginia 22101

AWA NETS

PHONE

Sunday -- 12 noon
3903 Kc.

Tuesday -- 8 P.M.
3865 Kc.

CW -- 3584 Kc.

8 P.M. First Wednesday of each month

4 P.M. Daily

E.D.S.T.

HELP!

Does the name HENRY D. NELSON, an inventor who lived in Dallas County, Iowa, from 1868 until his death in 1908 ring a bell ? Theodore Streed, Curator of the Dallas County Museum (Rte. #2, Perry, Iowa 50220) is very interested in obtaining information about this early electrical pioneer. Any information would be greatly appreciated.

Change In Address?

Mail information to the Treasurer who handles current mailing list. (NOT the Secretary)

L.A. CUNDALL, W2QY
69 BOULEVARD PKWY
ROCHESTER, N.Y. 14612

LAST MINUTE BULLETIN: Word has just been received that AWA member Glenn Browning of Browning-Drake fame became a Silent Key November 14th, 1974.

Communications news

HEADLINES TODAY -- HISTORY TOMORROW
(Clippings from current newspapers and trade journals)

Communications Products Trade Deficit Totals Billion

Radar Detects Birds in Flight

WASHINGTON — According to the

Bust of Marconi unveiled

SOUTH WELLFLEET — A bronze bust of Guglielmo Marconi, the inventor who launched the age of electronics with his invention of the wireless telegraph, will be unveiled and dedicated at 2:30 p.m. Oct. 14, at the Cape Cod National Seashore.

The public ceremonies will take place at the Marconi Station site, South Wellfleet, from where Marconi sent his first trans-Atlantic message from the United States to England.

Western Elect. Strike Ends

Electronics Double by 1985

Layoffs Hit

Philips Bid

Strike Is Over At Zenith Plant

Up to $9 for Magnavox

Mark Fifth Anniversary of Moon Transmission

Five years have passed since the heroic first Moon landing by Astronauts Armstrong and Aldrin which was a t[illegible]

Collins Will Build AT&T Earth Stations

Collins Radio has received a contract in excess of $6 million to provide earth station ground communication equip-

License Fees may go down

Italian Firm Sues Carbide for $72M

FCC Proposes New Import Rule

Marconi Wins New TV Order

Inventor of Television Says: The Thing I Like Best About TV Is the 'Off' Switch

The man credited with being "the father of television" takes such a dim view of how his brain-child is used today that he admits: "The thing I like best about TV is the off' switch. I certainly didn't expect television to become what it is today," said 85-year-old Dr. Vladimir Zworykin. He invented, and later as RCA's director of research, he perfected, the iconoscope — the prototype of today's TV camera tube.

2 British Firms Wind Up B&W TV Tube Production

LONDON Thorn Electrical Industries and Philips Industries, two of the largest firms in Britain's consumer electronics market, are phasing out of black-and-white television tube production in this country because of the sharp fall-off in demand.

Zenith Files Suit Against Motorola, Japan TV Firms

Federal Communications Commission Marks Its 40th Birthday with Ceremonies in Washington

Created by Communications Act of 1934

Greater VHF Efficiency In TV Is Under Study

N.A. Philips Acquires Controlling Interest in Magnavox